

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Katsushi SHIO et al.

Application No.: 09/446,730

Filed: December 27, 1999

Docket No.: 105081

For: AQUEOUS SUSPENDED AGRICULTURAL CHEMICAL COMPOSITION

INFORMATION DISCLOSURE STATEMENT

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date or the date of filing a CPA, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.
- ☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).
- ☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).
- ☐ c. Attached is our check no. _____ in the amount of \$240.00 in payment of the fee under 37 CFR §1.17(p). Please credit or debit Deposit Account No. 15-0461 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.

- ☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Applicant(s) hereby petition(s) that the Information Disclosure Statement be considered. Attached is our Check No. _____ in the amount of \$130.00 in payment of the petition fee under 37 CFR §1.17(i)(1). Please credit or debit Deposit Account No. 15-0461 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
- ☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).
- ☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).
- ☒ 4. Relevance of JP-A-4-76721 is discussed in the present specification.
- ☒ 5. JP-A-2-214504, JP-A-56-39077, JP-A-57-203066 and JP-A-7-53526 cited in a counterpart foreign application. An English language version of the foreign search report is attached for the Examiner's information.

Respectfully submitted,



James A. Oliff
Registration No. 27,075

Thomas J. Pardini
Registration No. 30,411

JAO:TJP/kmc

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>
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Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 105081		APPLICATION NO. 09/446,730	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Katsushi SHIO et al.			
				FILING DATE December 27, 1999		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
		JP-A-4-76721	03/1992	Japan			
		JP-A-2-214504	08/1990	Japan			
		JP-A-56-39077	04/1981	Japan			
		JP-A-57-203066	12/1982	Japan			
		JP-A-7-53526	02/1995	Japan			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
		K. Miyake et al., <u>Crystallization Behaviors of α- and β-Quizalofop- ethyl Polymorphs in Homogeneous Nucleation</u> , ACS Symp. Ser., (1997) 667 (Separation and purification by crystallization), p. 101-110.					
		A. Shiroishi et al., <u>Semi-batch cooling crystallization of quizalofop-ethyl with polymorphism</u> , ACS Symp. Ser., (1990) 438 (Cryst. Sep. process), p. 261-270.					
		G. Sakata et al., <u>Preparation of optically pure ethyl @-(+) and (S)-(-)-2[4-(6-Chloro-2-quinoxalinyloxy) phenoxy] propanoate by resolution method and their herbicidal activities</u> , J. Pesticide Sci., (1985) 10(1) p. 75-79.					
		K. Makino et al., <u>Crystal structure of a new herbicide, ethyl 2-[4-(6-chloro-2-quinoxalinyloxy) phenoxy] propanoate</u> , J. Pesticide Sci., (1986) 11(2), p. 237-243.					
		G. Sakata et al., <u>Synthesis and herbicidal activity of optically active ethyl 2-[4-(6-chloro-2-quinoxalinyloxy) phenoxy] propanoate</u> , J. Pesticide Sci., (1985) 10(1), p. 69-73.					
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							